PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference									
0000054288	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)							
PCT/EP2004/000706	28.01.2004	17.02.2003							
International Patent Classification (IPC) or national	onal classification and IPC								
C14C 9/02									
Applicant BASF AKTIENGESELLSCHAFT									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of	5 sheets,	including this cover sheet.							
3. This report is also accompanied by A	NNEXES, comprising:								
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))									
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This report contains indications relati	ng to the following items:								
Box No. I Basis of the	report								
Box No. II Priority									
Box No. III Non-establi	shment of opinion with regard to novel	ty, inventive step and industrial applicability							
	ty of invention								
Box No. V Reasoned st									
Box No. VI Certain doc	uments cited								
Box No. VII Certain defe	ects in the international application								
Box No. VIII Certain obs									
Date of submission of the demand	Date of comple	tion of this report							
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Name and mailing address of the IPEA/	Authorized offi	cer							
Facsimile No.	Telenhone No.								

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/000706

Box	No. I	Basis of the report				
1.	With reindicat	regard to the language, this report is based on the internationated under this item.	al application in the language in which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
	Ļ	international search (Rule 12.3 and 23.1(b))				
	Ļ	publication of the international application (Rule 12.4)	3			
2.	L With r	international preliminary examination (Rule 55.2 and/o				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	\bigsqcup_{i}	the international application as originally filed/furnished				
	W 1	the description:				
	1	pages1-25	as originally filed/furnished			
	I	pages*	received by this Authority on			
	1	pages*	received by this Authority on			
		the claims:				
	1	nos. <u>1-17</u>	as originally filed/furnished			
	1	nos.*	as amended (together with any statement) under Article 19			
	1	nos.*				
	1	nos.*				
		the drawings:				
	:	sheets	as originally filed/furnished			
	:	sheets*				
	:		received by this Authority on			
		a sequence listing and/or any related table(s) - see Suppleme				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
ļ		the claims, nos.				
	[the drawings, sheets/figs				
	[
	[
4.			nents annexed to this report and listed below had not been made along			
	[the description, pages				
	[Alexander and a second a second and a second a second and				
	[
	[
	[any table(a) related to accurance listing (c. 16)				
	If iten	n 4 applies, some or all of those sheets may be marked "supe				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000706

Box	: No. V	Reasoned stateme citations and expla	nt under Ar anations sup	ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement				
	Novelty	y (N)	Claims	1-17	YES
			Claims		NO
	Inventive step (IS)		Claims	1-17	YES
			Claims		NO
	Industr	ial applicability (IA)	Claims	1-17	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: EP-A-1 087 021 (cited in the application)

1. Novelty (PCT Article 33(2)) / Inventive step (PCT Article 33(3)

The subject matter of the present claims 1-17 is novel over the prior art as cited in the international search report.

None of the documents cited in the international search report discloses a <u>formulation</u> that contains <u>polysiloxane(s)</u> containing carboxyl <u>groups</u>, <u>polysiloxane(s)</u> free from carboxyl groups and at least one <u>emulsifier</u>, a method for the production thereof, a method for hydrophobing leather and pelts using said formulation and leather or pelts thus treated.

The subject matter of the present claims 1-17 also involves an inventive step, since D1, which can be regarded as the closest prior art, does not, taken

International application No.
PCT/EP2004/000706

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

either alone or in combination with any other document cited in the international search, contain any indication of the claimed method for the following reasons:

D1 discloses a leather treatment agent for hydrophobing and retanning leather, said agent containing polysiloxane that contains carboxyl groups, a polyacrylate, liquid paraffin and N-laurylsarcosine as emulsifier.

The impregnation formulation claimed in the present claims differs from the formulation known from D1 by virtue of the additional polysiloxane components that are free of carboxyl groups.

The technical problem of interest lies in the development of a method for hydrophobing leather, with which hydrophobic leather with an even colour can be obtained using cheaper polysiloxanes.

The above problem was solved using the aforementioned formulations, chrome tanned leather being treated in the retanning stage using an aqueous emulsion that contains, in addition to polysiloxanes that contain carboxyl groups and polysiloxanes that are free of carboxyl groups, N-oleyl sarcosine, triglyceride, NaOH and paraffin (emulsion 1.1, table 1). Leather is obtained which absorbs less water, is more flexible and has a more even colour (leather 3.1, table 2) than similar leathers which were also treated with an

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000706

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

emulsion, but with one that does not contain polysiloxane that is free of carboxyl groups (leather V3.5, table 2).

Since no other document renders obvious the claimed method for hydrophobing leather, an inventive step is acknowledged in respect of the subject matter of the application.

2. Industrial applicability (PCT Article 33(4))

The application concerns a polysiloxane-containing emulsion for hydrophobing leather and pelts and is therefore industrially applicable.